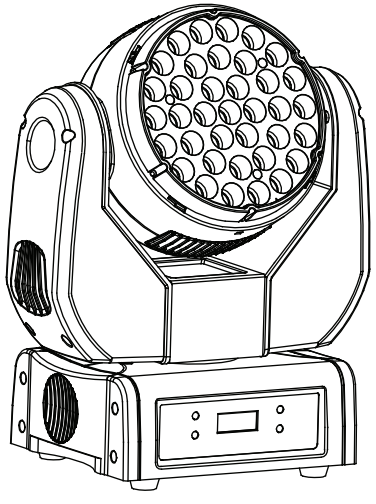
USER MANUAL

MH-B373



Please Read Over This Manual Before Operating The Light Fixture

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1 PRODUCT SPECIFICATIONS

1.1 PRODUCT SPECIFICATIONS

Electrical
◆Voltage:AC100~240V，50/60Hz
◆Rated Power:160W

LED
◆LED:37PC(13R+12G+12B)
◆Cooling:Forced air convection

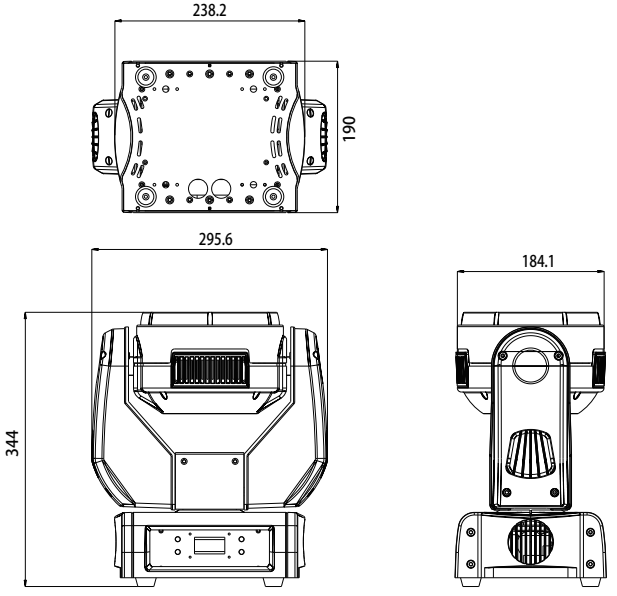
Function
◆Color mixing / Custom programs /
Strobe / White balance / RGB calibration / Dim 4 / Fan speed

Operation
◆Control mode:Master-Slave/Auto/Custom/ Sound
◆LCD display
◆DMX512 Chs:9CHS/ 12CHS

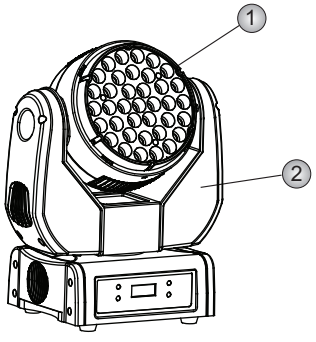
Pan/Tilt
◆Pan 540° Tilt 270°
◆Pan/Tilt speed
◆User-selectable Pan/Tilt ranges

◆ Size:400x380x280mm
◆ Weight:6.5kg

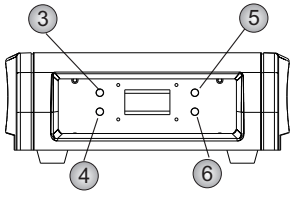
1.2 DIMENSIONS

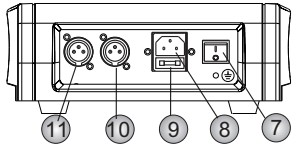


1.3 PRODUCT FEATURES



No	ITEM
1	Head
2	Side arm
3	Menu
4	Enter
5	Down
6	Up
7	Switch
8	Power input
9	Fuse
10	DMX 3-PIN signal output
11	DMX 3-PIN signal input





1.5 SAFETY WARNING

IMPORTANT

【ALWAYS READ THE USER MANUAL BEFORE OPERATION.】
【PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA.】

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION

⚠ ATTENTION ⚠

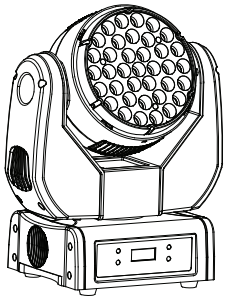
- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

2 INSTALLATION

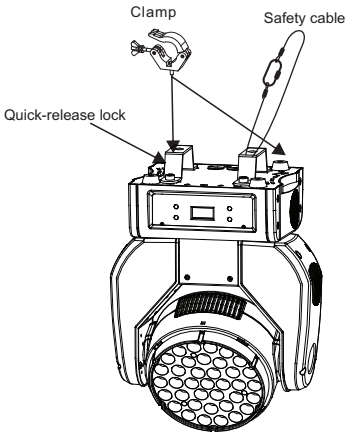
2.1 MOUNTING

The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that the will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.

When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.



UPRIGHT



HANGING

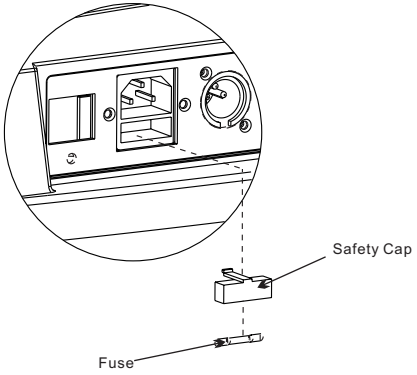
IMPORTANT SAFETY NOTE!!
Always use a safety cable when installing this unit!!
Be sure that the safety cable is connected to a solid load-bearing structure.

2.2 SETTING UP (STAND ALONE)

The LED fixture can be used as a stand alone unit. The stand alone functions AUTO 1, AUTO 2 and CUSTOM can be activated without the need to connect to any controller or connecting to any other equipment. Simply, access the <operation> menu from the DISPLAY and select the target program to activate.

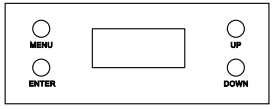
2.3 FUSE REPLACEMENT

- ◆ Remove the safety cap by a screwdriver.
- ◆ Fetch the old fuse from safety cap.
- ◆ Install a new fuse.
- ◆ Install the safety cap.



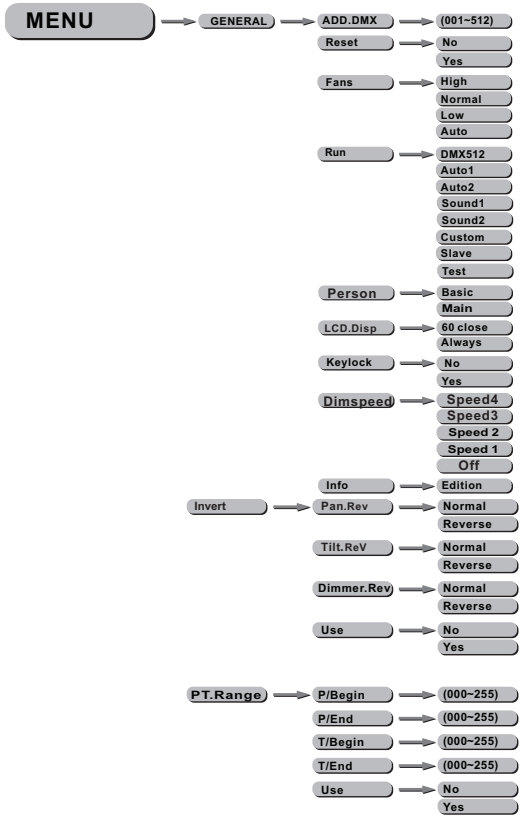
3 DISPLAY PANEL OPERATION

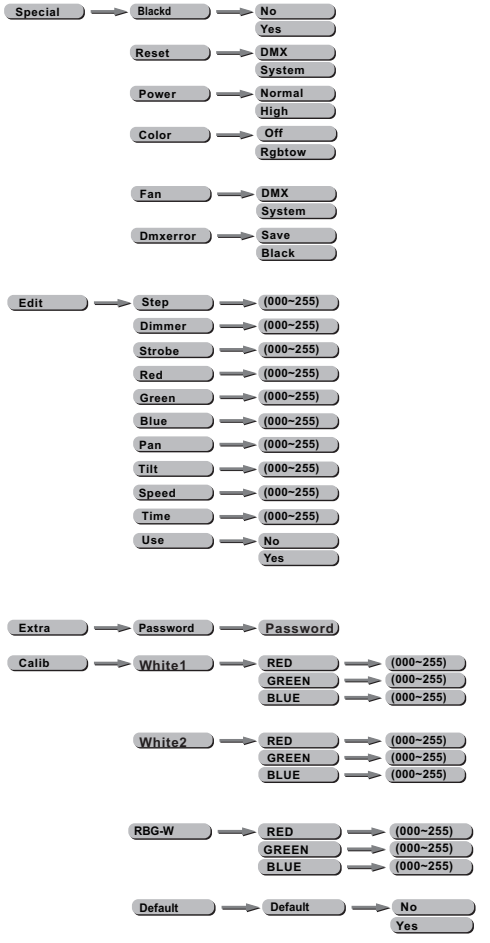
3.1 BASIC



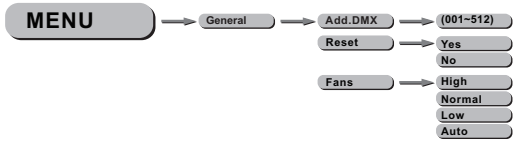
【 **MENU** 】Scroll through the main menu or exit from the current sub-menu
【**ENTER**】Enter the currently selected menu or confirm the current function value
【 **DOWN**】Scroll 'DOWN' through the menu list or decrease the value of the current function
【 **UP** 】Scroll 'UP' through the menu list or increase the value of the Current function

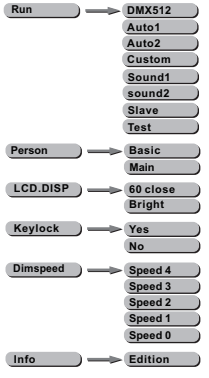
3.2 MENU





3.3 INTRO





◆【Address】Enter【***Add.DMX***】to set the DMX Address, which is from (001-512)

◆【Reset】In order to rest custom modest to default, select 【***Reset***】

◆【Fans】Enter【***Fans***】to select the working mode of fan: 【***High***】is for fast; 【***Normal***】is for normal; 【***Low***】is for slow ; 【***Auto***】is for Auto

◆【Run】 Enter【***Run***】to select the operation mode: 【***DMAX512***】;【***Auto1***】; 【***Auto2***】;【**sound1**】;【**sound2**】:【***Custom***】;【***Test***】;【***Slave***】

◆【PERSON】Enter 【**PERSON**】to select the DMX channel modes:【***Basic***】; 【***MAIN***】

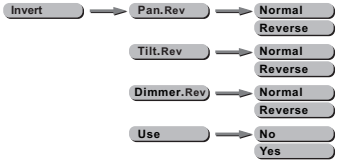
◆【Display】Enter【 ***Display***】to select the lighting time of the LCD display panel.

◆【Keylock】Enter the【***Keylock***】mode to select whether the access password is on or off.

◆【DimSpeed】Enter 【**DimSpeed**】to select dimmer mode and dimmer speed. When DIMMER is set to 【***Off***】, then RGBW and MASTER DIMMER are linear. The Dim 1/2/3/4 are speed modes of the non linear dimmer ,【***SPEED1***】is the faster, while ***SPEED4***】is the slowest. The factory default setting is 【**SPEED*4***】.

◆ Enter【 ***Info***】to see the version of the software.

3.4 INVERT

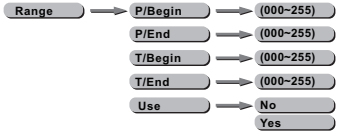


【 ***Invert***】

● Select【 ***Pan.Rev***】/【 ***Tilt.Rev***】/【 ***Dimmer.Rev***】to set 【***Normal***】or 【***Reverse***】

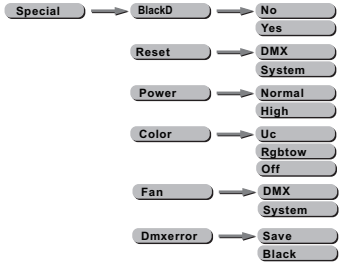
● Enter【 ***Use***】and set【***Yes***】to run the new setting

3.5 PT.RANGE



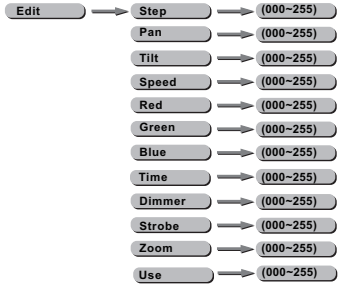
- 【*P/Begin*】Set pan start value 【*000~255*】
- 【*P/End*】Set pan finish value 【*000~255*】
- 【*T/Begin*】Set Tilt start value 【*000~255*】
- 【*T/End*】Set Tilt finish value 【*000~255*】
- 【 *Use*】Enter【 *Use*】 and select【*Yes*】to open the operation of X/Y angle

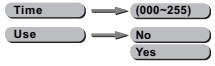
3.6 SPECIAL



- ◆【BlackD】Enter【*BlackD*】to choose 【*No*】 without delay or 【*Yes*】 3seconds delay
- ◆【 Reset】Enter【*Reset*】 to choose【*DMX*】 DMX control reset or 【*System*】 DMX cannot control reset
- ◆【Power】Enter 【*Power*】 to choose the power as NORMAL or HIGH.
- ◆【Color】 【*COLOR*】 is for activate/unactivate the color calibration functions.
- ◆【 Fan】Choose【*DMX*】DMX to control fan or 【*System*】 DMX cannot control fan
- ◆【 Dmxerror】Choose【Save】 After loss of DMX Save,【Black】After loss of DMX black

3.7 EDIT





【 *Edit* 】

- Enter the【 *Edit* 】mode to edit the custom programs by adjusting the value of【*Step*】,【*Pan*】,【*Tilt*】,【*Speed*】,【Blue】,【Zoom】,【*Green*】,【Red】,【*Dimmer*】,【*Strobe*】,【 *Time*】
- Enter【 *Use*】 and select 【*Yes*】 to run the steps user need.

Note: if user want to circulate the created steps, please set the last step‘s 【*Time*】 as 0

For example, there are 3 steps, the setting should be like belowed:

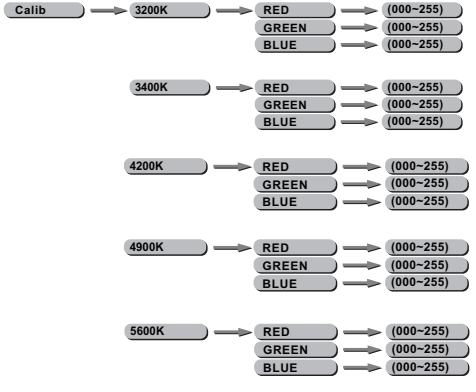
Step 1 【*Time*】= 4 【 *Use*】= Yes
Step 2 【*Time*】= 5 【 *Use*】= Yes
Step 3 【*Time*】= 0 【 *Use*】= Yes

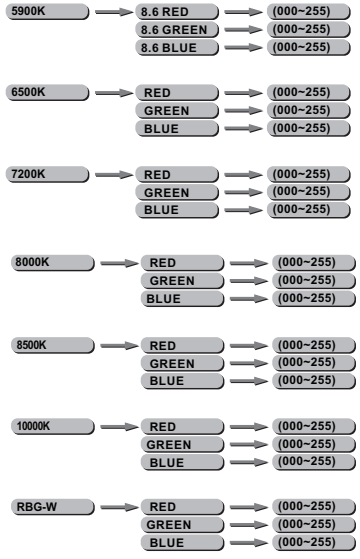
3.8 EXTRA

◆ When the user enter 【 password】and input the correct password, the hidden menu 【*Cablid*】,【*default*】 will appear on display panel, and the user is able to reset the 【*DEFAULT*】values of all functions.

The default access code is UP + DOWN + UP + DOWN..

3.9 CALIB

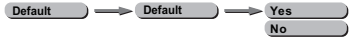




【 *Calib*】

- Enter the **【*Calib*】** to select white color of different color temperature.
- There are 11 pre-programmed White colors plus RGB TO WHITE and can be edited by using **【*Red*】**, **【*Green*】** & **【*Blue*】** .

3.10 DEFAULT



【 *Default*】

◆ This functions will reset all setting to the original factory setting

4 USING A DMX512 CONTROLLER

4.1 CHANNEL ASSIGNMENT

● Note: This product have two DMX512 channel configuration: **【MAIN】** and **【*BASIC*】.**

MAIN

CHANNEL	VALUE	FUNCTION
1	000~255	**DIMMER**
2	000~009 010~255	**STROBE** NO function 1~20Hz
3		**COLOR/WHITE MACRO**
	000~005	NO FUCNTION
	006~010	FULL POWER
	011~030	RED 100% / GREEN UP / BLUE 0%
	031~050	RED DOWN / GREEN 100% / BLUE 0%
	051~070	RED 0% / GREEN 100% / BLUE UP
	071~090	RED 0% / GREEN DOWN / BLUE 100%
	091~110	RED UP / GREEN 0% / BLUE 100%
	111~130	RED 100% / GREEN 0% / BLUE DOWN
	131~150	RED 100% / GREEN UP / BLUE UP
	151~170	RED DOWN / GREEN DOWN / BLUE 100%
	171~200	RED 100% / GREEN 100% / BLUE 100% /WHITE 100%
	201~205	WHITE1: 3200K
	206~210	WHITE2: 3400K
	211~215	WHITE3: 4200K
	216~220	WHITE4: 4900K
	221~225	WHITE5: 5600K
	226~230	WHITE6: 5900K
	231~235	WHITE7: 6500K
	236~240	WHITE8: 7200K
	241~245	WHITE9: 8000K
	246~250	WHITE10: 8500K
	251~255	WHITE11: 10000K
4	000~255	**RED**
5	000~255	**GREEN**
6	000~255	**BLUE**
7	000~255	**PAN** Clockwise rotate 0~540°

CHANNEL	VALUE	FUNCTION
8	000~255	**PAN FINE** Fine control of pan movement 0~3°
9	000~255	**TILT** Anti-clockwise rotate 0~270°
10	000~255	**TILT FINE** Fine control of tilt movement 0~3°
11	000~255	**PAN/TILT SPEED** From fast to slow
12		**CONTROL**
	000~019	NO FUNCTION
	020~039	PAN/TILT BLACK ACTIVATED
	040~059	PAN/TILT BLACK DEACTIVATED
	060~079	FAN AUTO
	080~099	FAN SLOW
	100~119	FAN NORMAL
	120~139	FAN FAST
	140~149	AUTO1 (ACTIVATED AFTER 3 SECS)
	150~159	AUTO2 (ACTIVATED AFTER 3 SECS)
	160~169	TEST (ACTIVATED AFTER 3 SECS)
	170~179	CUSTOM (ACTIVATED AFTER 3 SECS)
	180~199	NO FUNCTION
	200~219	RESET (ACTIVATED AFTER 3 SECS)
	220~255	NO FUNCTION

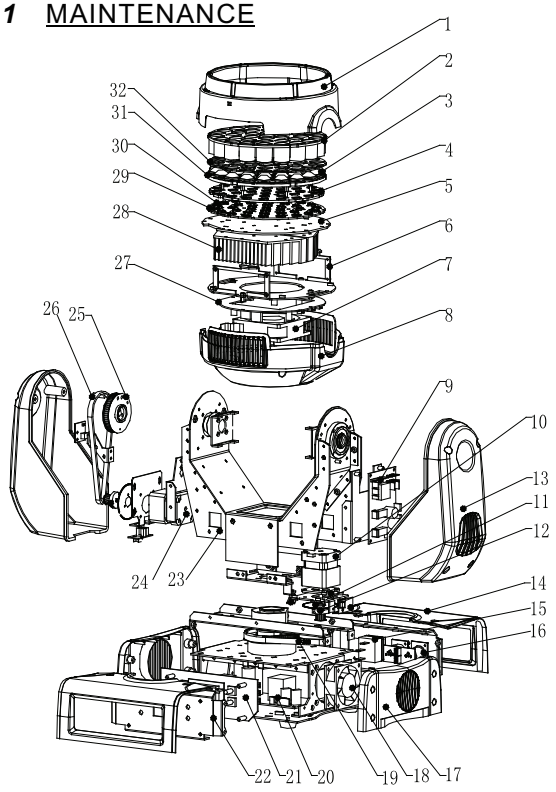
BASIC

CHANNEL	VALUE	FUNCTION
1	000~255	**DIMMER**
2	000~009	**STROBE** NO function
	010~255	1~20Hz
3		**COLOR/WHITE MACRO**
	000~005	**NO FUCNTION**
	006~010	FULL POWER
	011~030	RED 100% / GREEN UP / BLUE 0%
	031~050	RED DOWN / GREEN 100% / BLUE 0%
	051~070	RED 0% / GREEN 100% / BLUE UP
	071~090	RED 0% / GREEN DOWN / BLUE 100%
	091~110	RED UP / GREEN 0% / BLUE 100%
	111~130	RED 100% / GREEN 0% / BLUE DOWN
	131~150	RED 100% / GREEN UP / BLUE UP
	151~170	RED DOWN / GREEN DOWN / BLUE 100%
	171~200	RED 100% / GREEN 100% / BLUE 100% /WHITE 100%
	201~205	WHITE1: 3200K
	206~210	WHITE2: 3400K
	211~215	WHITE3: 4200K
	216~220	WHITE4: 4900K
	221~225	WHITE5: 5600K
	226~230	WHITE6: 5900K
	231~235	WHITE7: 6500K
	236~240	WHITE8: 7200K
	241~245	WHITE9: 8000K
	246~250	WHITE10: 8500K
	251~255	WHITE11: 10000K
4	000~255	**RED**
5	000~255	**GREEN**
6	000~255	**BLUE**
7	000~255	**PAN** Clockwise rotate 0~540°

CHANNEL	VALUE	FUNCTION
8	000~255	**TILT** **Anti-clockwise rotate 0~270°**
9	000~019 020~039 040~059 060~079 080~099 100~119 120~139 140~149 150~159 160~169 170~179 180~199 200~219 220~255	**CONTROL** NO FUNCTION PAN/TILT BLACK ACTIVATED PAN/TILT BLACK DEACTIVATED FAN AUTO FAN SLOW FAN NORMAL FAN FAST AUTO1 (ACTIVATED AFTER 3 SECS) AUTO2 (ACTIVATED AFTER 3 SECS) TEST (ACTIVATED AFTER 3 SECS) CUSTOM (ACTIVATED AFTER 3 SECS) NO FUNCTION RESET (ACTIVATED AFTER 3 SECS) NO FUNCTION

5 APPENDIX

5.1 MAINTENANCE



No	ITEM
1	Head front cover
2	Lead aperture
3	lens
4	Capture lens plate
5	LED support
6	Fan plate
7	Fan
8	Head back cover
9	Motor driver PCB
10	Motor
11	Optical wheel
12	Y-small gear

No	ITEM
13	Arm board
14	Base cover 1
15	IEC power socket
16	DMX connection board
17	Base cover 2
18	Fan
19	Pan belt
20	Power supply
21	Display PCB
22	Display support
23	U-frame
24	Y-motor support

No	ITEM
25	Y-large gear
26	Pan belt
27	Driver PCB
28	Head structure
29	LED PCB
30	Capture lens
31	Capture lens plate2
32	Capture lens plate1